



PEPFAR

U.S. President's Emergency Plan for AIDS Relief

Viral Load Scale-Up, Suppression, Laboratory and Diagnostic Network Optimization: 3rd 95

PEPFAR Mozambique | March 8, 2022

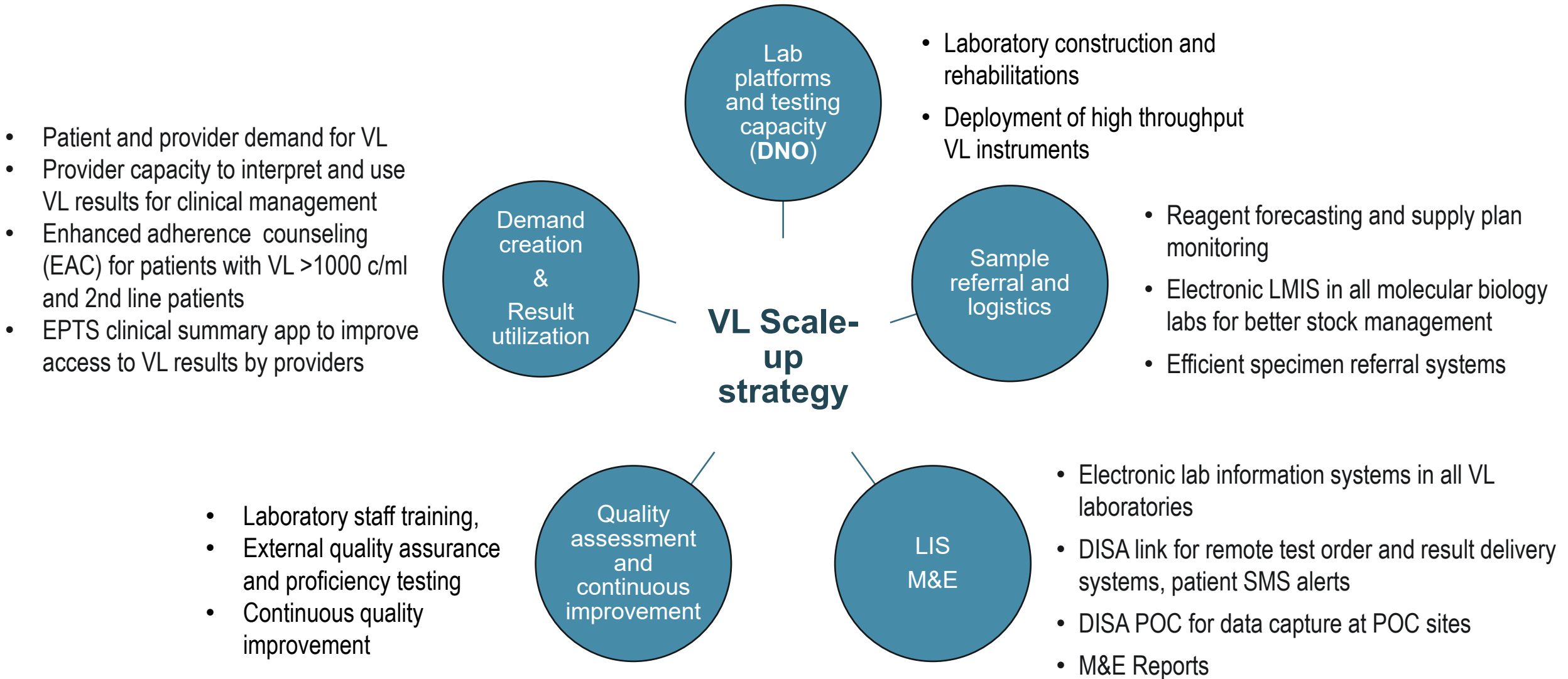
Presenters:

Jessina Masamha - CDC

Alex Nguimfack - CDC

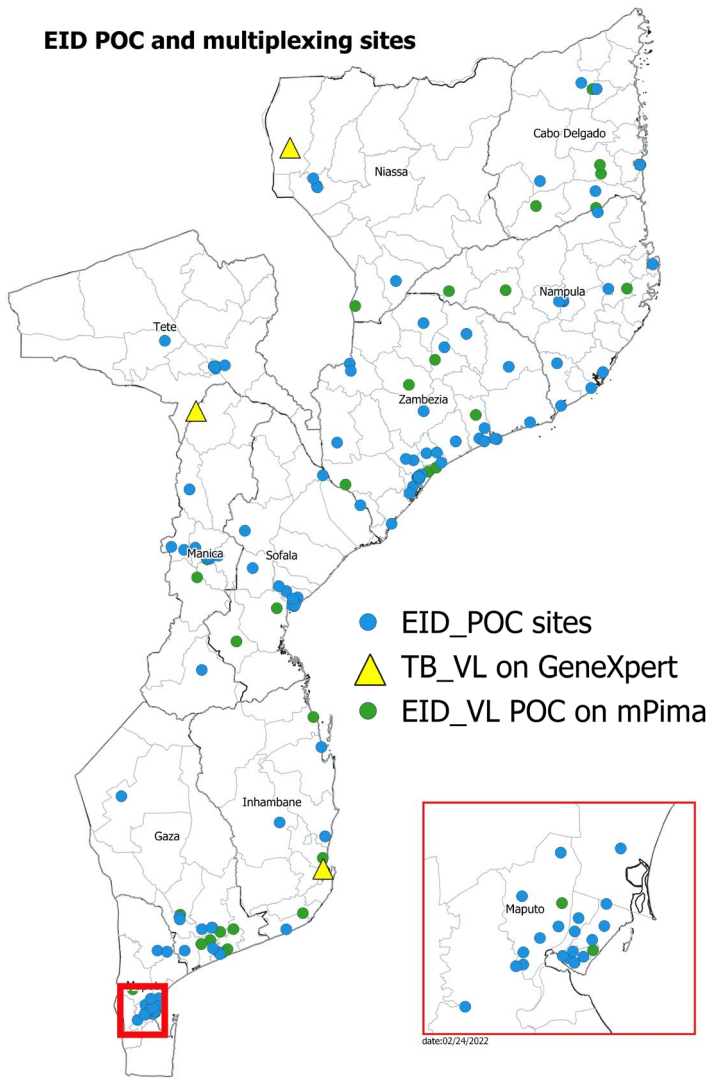
19 YEARS OF SAVING LIVES THROUGH AMERICAN GENEROSITY AND PARTNERSHIPS

VL Scale up Strategy to Achieve the 3rd 95



Laboratory Systems Supporting VL Scale Up

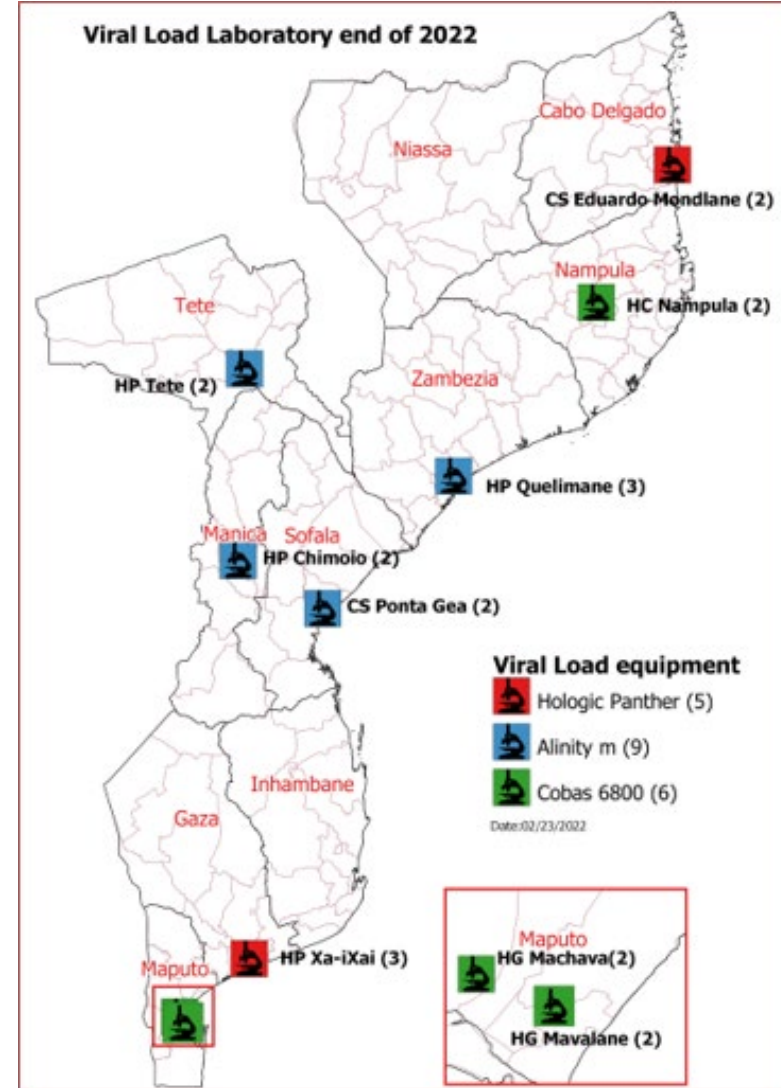
EID POC and multiplexing sites



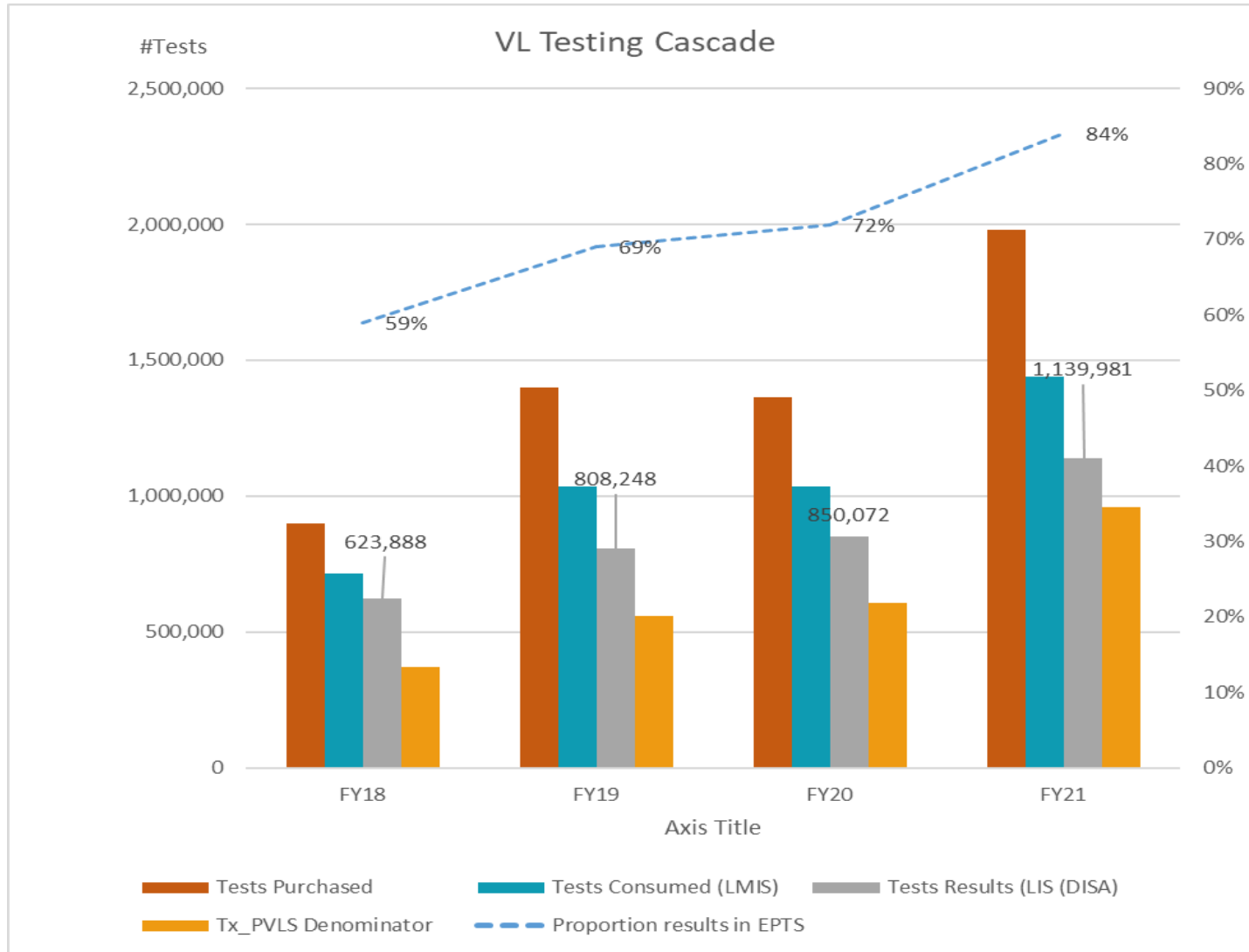
VL/EID Diagnostic Network Optimization

- VL laboratories constructed prior to FY22 (Zambezia and Maputo Province; major rehab in Maputo City)
- COP21 Infrastructure:
 - Gaza construction completion end of March 2022
 - Construction process underway for Cabo Delgado and Manica
- Deployment of high throughput VL instruments on track for completion at end of 2022, increasing testing capacity from 2M at end of 2021 to 2.8M tests/year
- Multiplexing for VL POC launched in COP21 with plans to expand to 9 additional GeneXpert sites in COP22.
 - Phase one focus on PLW and CLHIV <15
 - Evaluation of impact planned in COP22

Viral Load Laboratory end of 2022



Notable Improvements in VL Testing Cascade



- VL testing doubled since introduction of routine VL in COP17
- Steady transition from DBS to plasma with introduction of new instruments; proportion of plasma samples increased from 15% in FY20 to 45% in Q1 FY22
- Significant improvement in availability of results in EPTS; 84% of tests reported in LIS were available in EPTS compared to 72% in FY20
- Difference between tests consumed and results reported remains high; implies significant laboratory wastage

Data Systems to Support VL Monitoring in COP22



Unlimited DISA Lab
License

Unlimited DISA license to support LIS expansion to all POC & multiplexing sites



SMS patient alerts

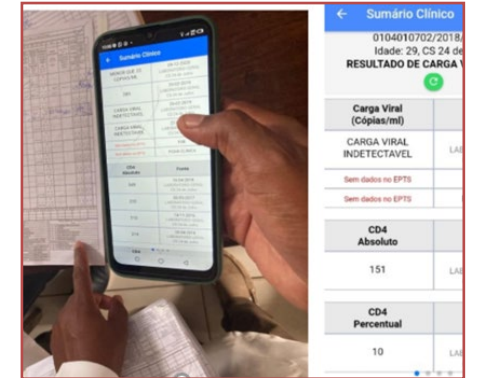
Expedite results delivery

- Patient SMS alerts
- HF access to facility level data on VL/EID Dashboard and WWW.DISA



DISA_EPTS
Interoperability

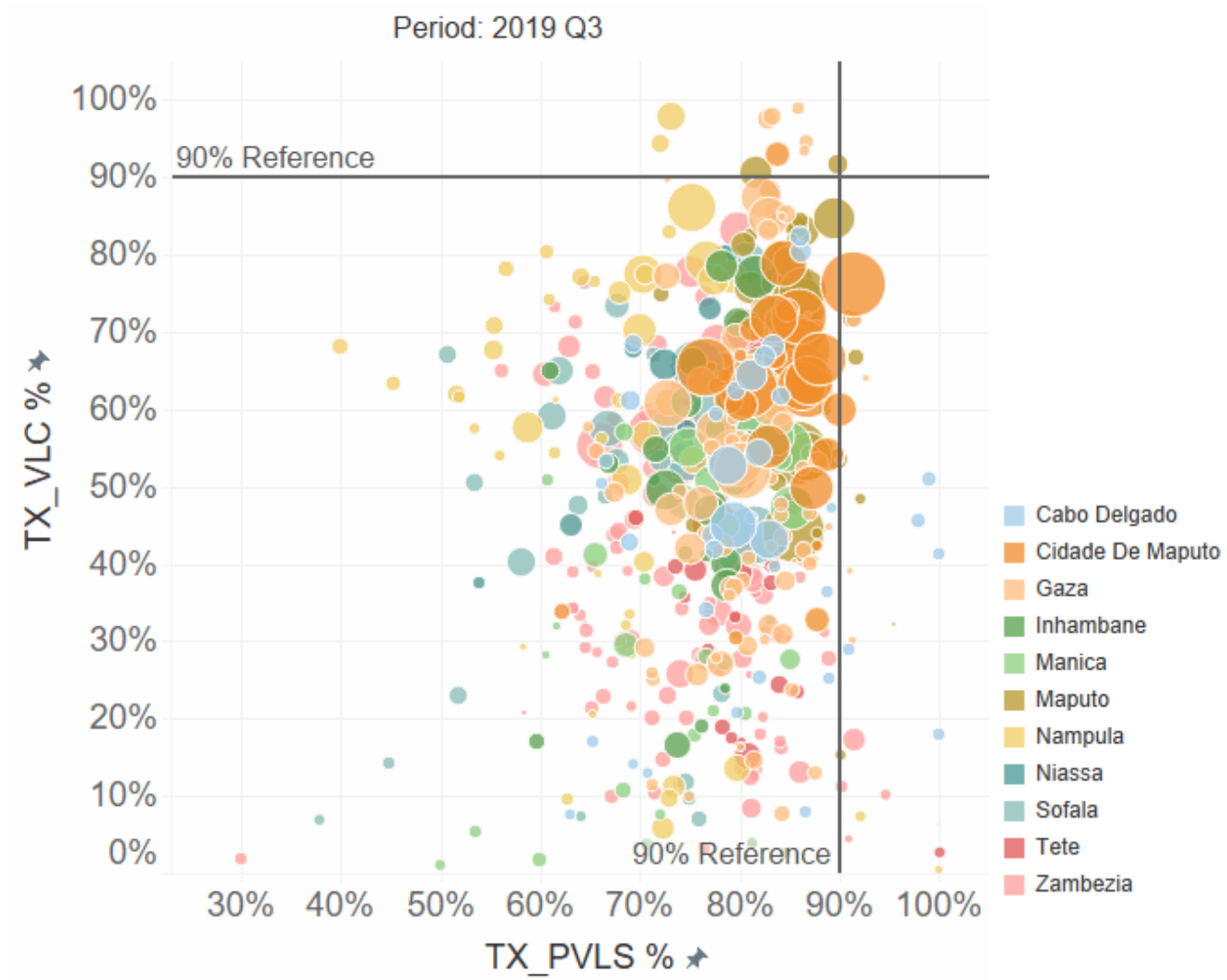
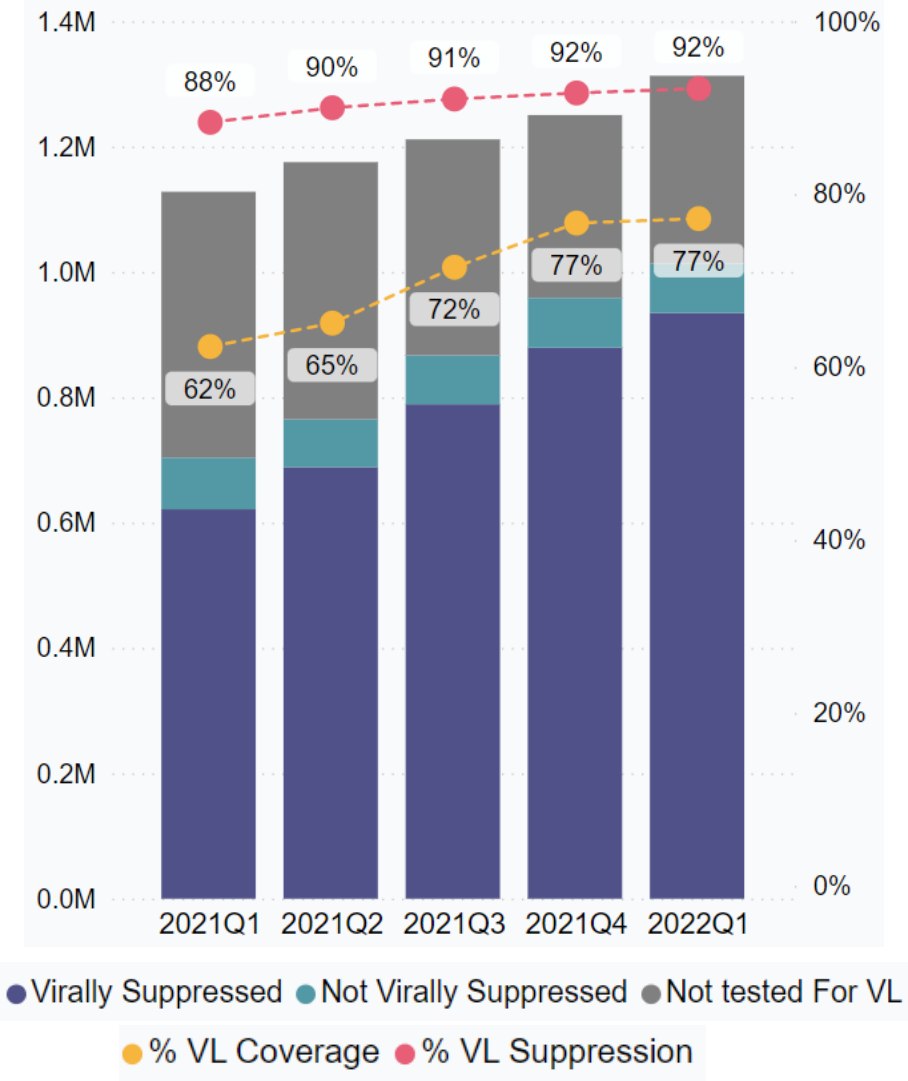
Expand DISA_EPTS Interoperability to all provinces to improve accuracy of data transfer and increase availability of results in EPTS



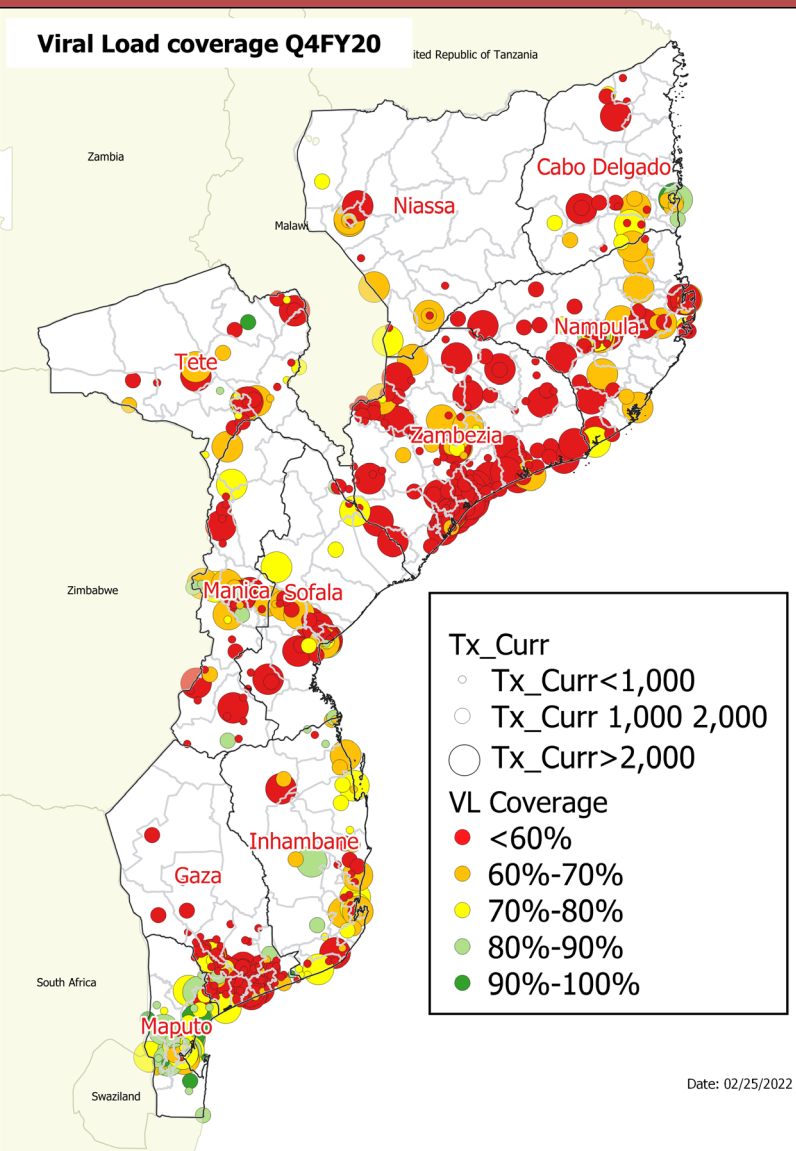
Real time access to
Open MRS Data

Implement Clinical Summary App to improve provider access to VL results in OpenMRS data base in real time

Substantial VLC & VLS Gains Across all Provinces

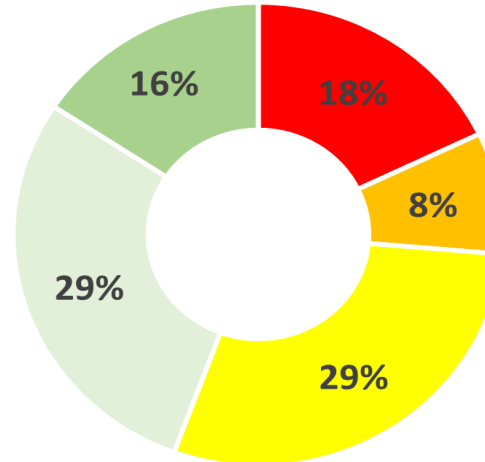


Viral Load Coverage Improvement Despite Gaps in Central Region

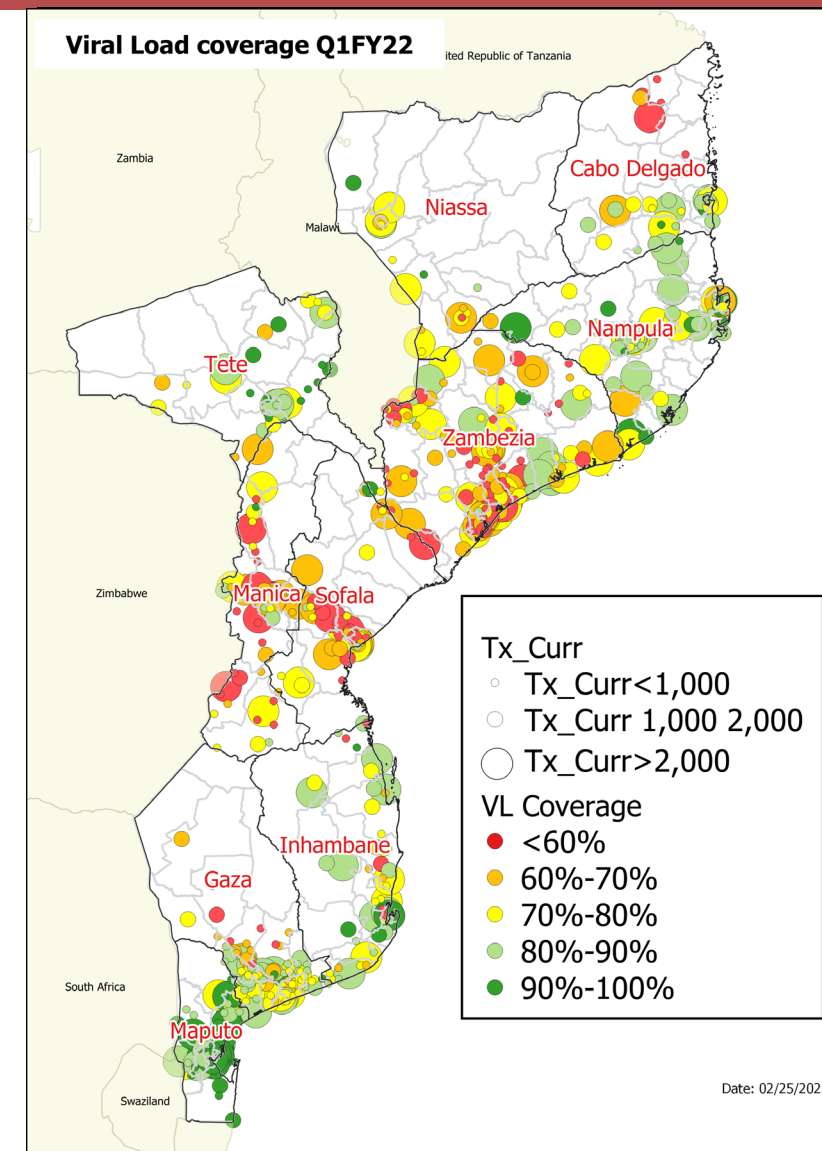


OVERVIEW OF SITE LEVEL VLC

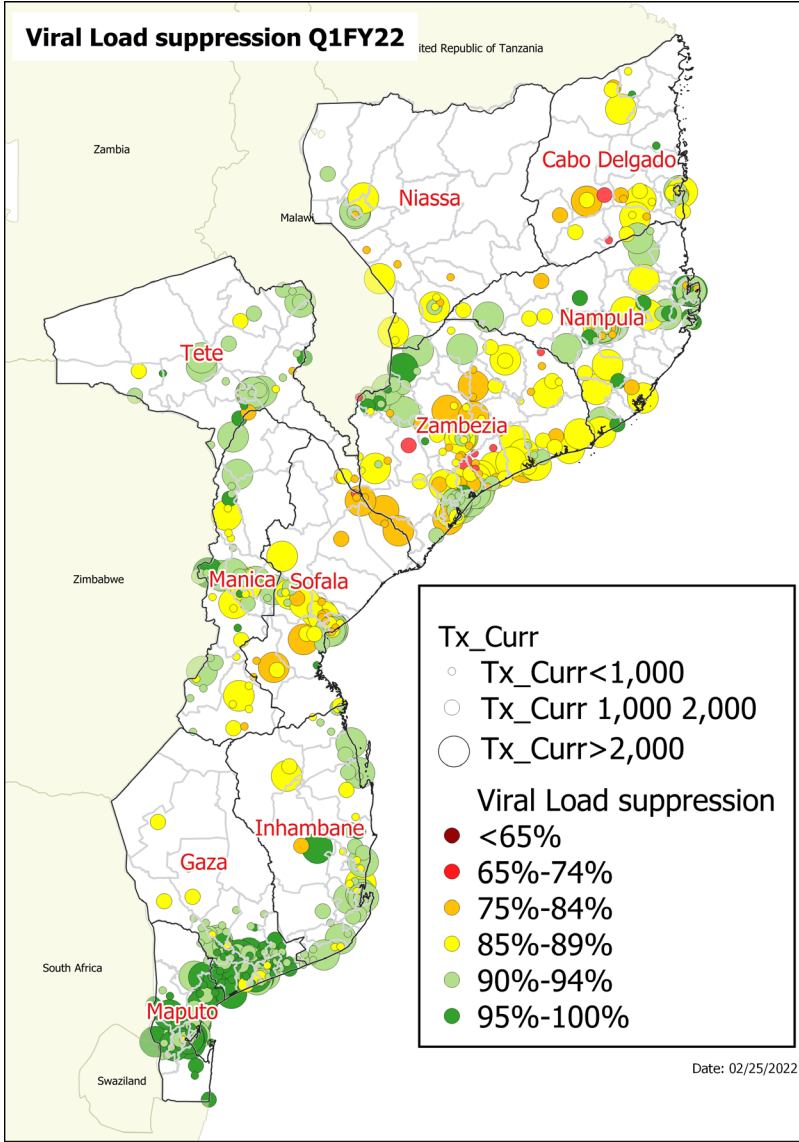
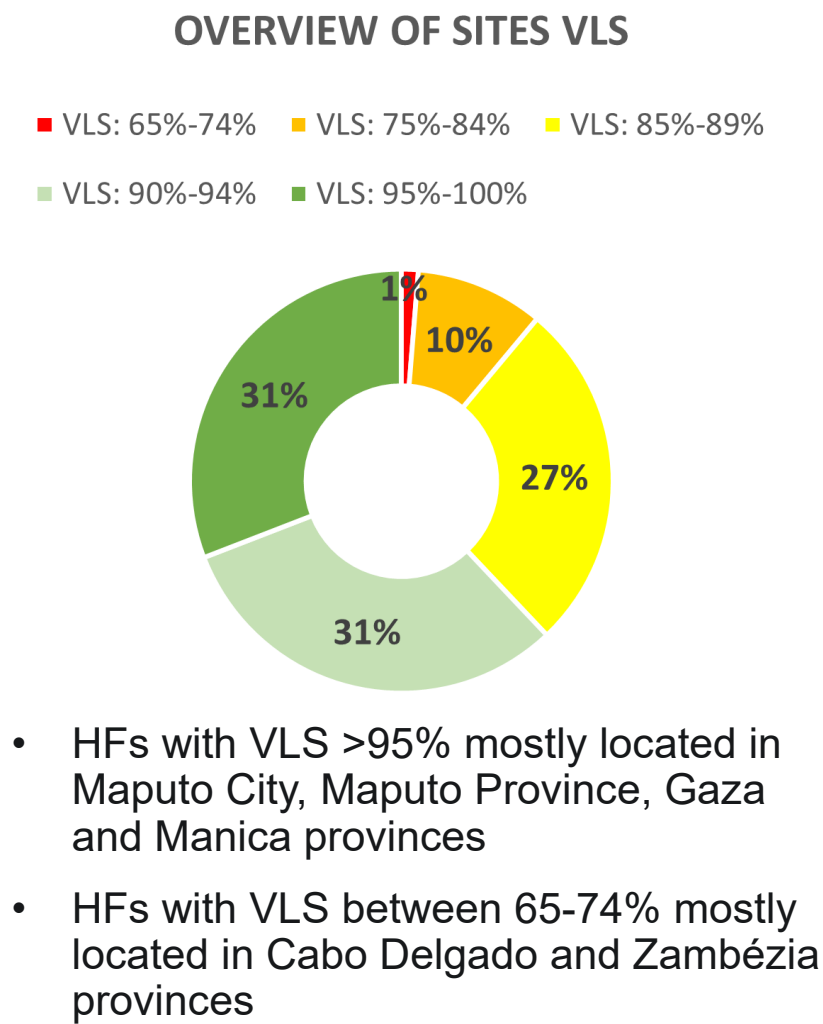
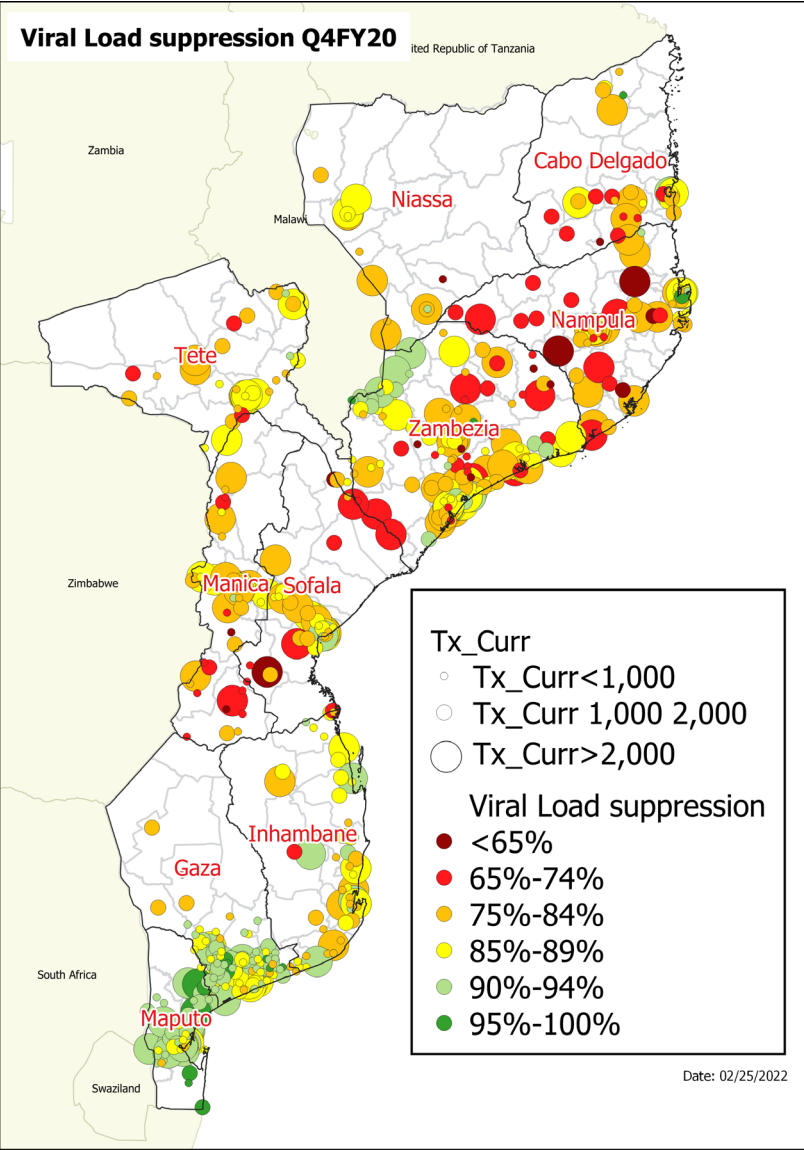
■ VLC < 60%
 ■ VLC 60%-70%
 ■ VLC 70%-80%
■ VLC 80%-90%
 ■ VLC > 90%



- 45% of sites have VLC > 80%
- 79% of the sites with VLC > 95% located in Maputo province and Maputo City
- HFs with VLC < 60% mostly located in Zambezia, Sofala and Manica Provinces

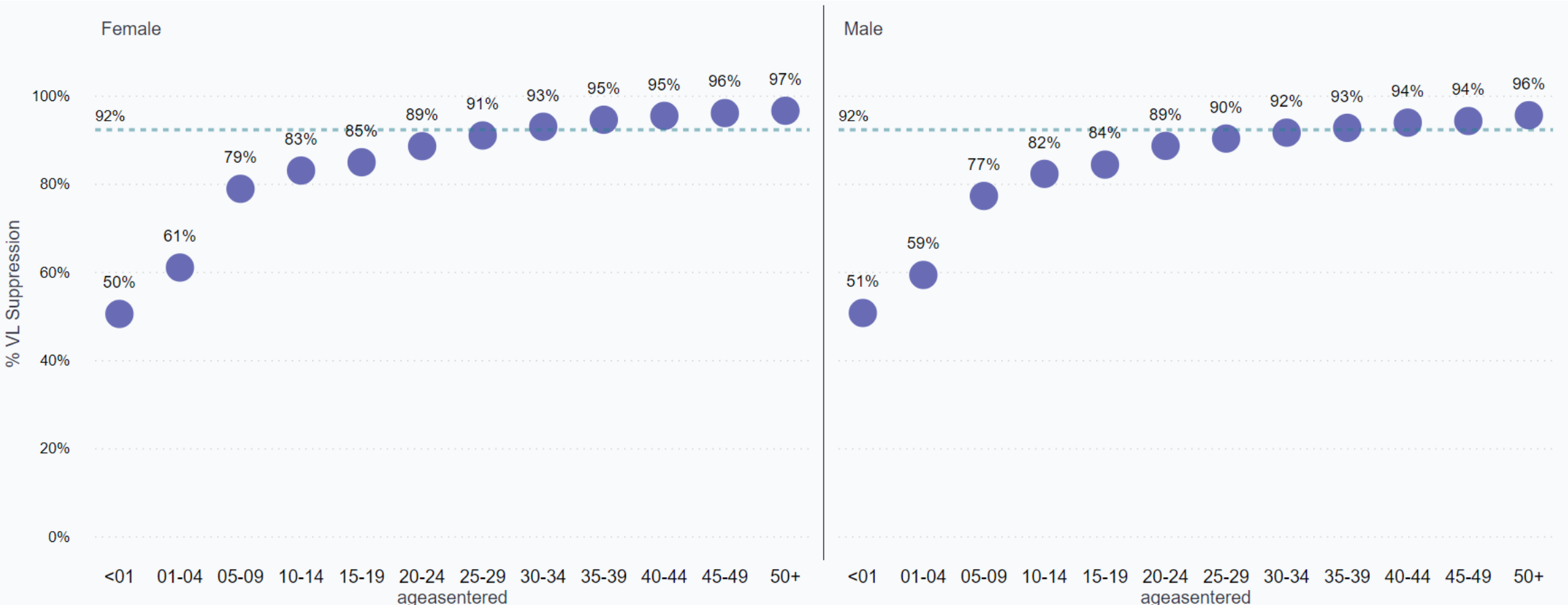


Southern Region Already Reaching the 3rd 95



Children and Adolescents Lag Behind Adults in VLS

Viral Load suppression by age and sex FY22 Q1



Ongoing implementation of multiple strategies to improve VLS for children and adolescents

COP22 Strategies to Improve VL Coverage and Suppression



Demand Creation

- U=U messages and use of local radio to increase patient's VL literacy
- Reminder messages to patients eligible for VL test
- VL sample collection and results return at mobile clinics and mobile brigades



Intensive monitoring plan in HFs and Province levels

- Daily review and flagging of eligible patient files
- Enhanced monitoring of viral load indicators
- In-service trainings and mentoring to strengthen implementation of the VL algorithm and interpretation of the VL results as well as ARV optimization.



Laboratory services and results reporting

- Guarantee reagents and consumable stock availability
- Support timely response to instrument breakdowns
- Introduce patient SMS alerts to expedite result delivery
- Timely return of VL results through outsourced lab sample transport